

FEATURE:

- Fast switching speeds(down to 20 ns maximum)
- Optimized for lowest phase deviation over band
- RMS phase error $\leq 3^\circ$ typical
- Low insertion loss
- Power handling up to 30 dbm
- IP3(typically 25 dbm)
- Hermetic sealing available

APPLICATION:

- Test equipment
- Radar&Warfare array system
- Communication system



ELECTRICAL SPECIFICATIONS@25°C:

Parameter	Min	Typical	Max	Units
Frequency Range	3.6		4.2	GHz
Insertion Loss			3.5	dB
VSWR			1.5:1	Ratio
Switching Speed			750	ns
Phase accuracy			± 3	$^\circ$
Amplitude balance			0.5	dB
Phase shift			348.75	$^\circ$
Phase shift step size			11.25	$^\circ$
Control Logic TTL Compatible		5		bits
Power handling			+20	dBm
DC Power supply +5V		300		mA
DC Power supply -5V		300		mA

all specification only assure 2.4GHz point frequency not consider over frequency band.

ENVIRONMENTAL RATINGS:

Parameter	Min	Typical	Max	Units
Operating Temperature	-40		+70	$^\circ\text{C}$
Non-operating Temperature	-55		125	$^\circ\text{C}$
Relative humidity (non-condensing)		95		%
Altitude (MIL-STD-810F)	10000		30000	feet
Shock / Vibration (MIL-STD-810F)		Airbone		

DB9 PIN ASSIGMENT:

PIN1	PIN2	PIN3	PIN4	PIN5	PIN6	PIN7	PIN8	PIN9
+5V	C1	C2	C3	C4	C5	GND	GND	-5V

MECHANICAL SPECIFICATIONS:

Parameter	Value	Limits	Units
Dimensions	50*30*16	Max	Millimeter
Weight	100	typical	gram
RF Connectors Input	SMA-F		
RF Connectors output	SMA-male		
DC/Logic interface	DB9 female		
Impedance	50		ohms

CONTROL TRUE TABLE:

Control		Phase shift			
C5C4C3C2C1	11.25°	22.5°	45°	90°	180°
00001	ON	OFF	OFF	OFF	OFF
00010	OFF	ON	OFF	OFF	OFF
00100	OFF	OFF	ON	OFF	OFF
01000	OFF	OFF	OFF	ON	OFF
10000	OFF	OFF	OFF	OFF	ON

OUTLINE DRAWING(mm):

